

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/03

Date Received: 04/17/03

Project: Metro Self Monitor, PO# M90692, F&BI 304164

Date Extracted: 04/30/03

Date Analyzed: 04/30/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Chromium</u> | <u>Copper</u> | <u>Nickel</u> | <u>Zinc</u> |
|-----------------------------------|-----------------|---------------|---------------|-------------|
| M90692 304164-01 | 0.26 | 0.38 | 0.24 | 0.05 |
| Method Blank | <0.05 | <0.05 | <0.05 | <0.05 |

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 304226-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|----------|-----------------|---------------|------------------|-----------------------------|---------------------|
| Chromium | mg/L (ppm) | 0.48 | 0.48 | 0 | 0-20 |
| Copper | mg/L (ppm) | 0.75 | 0.75 | 0 | 0-20 |
| Nickel | mg/L (ppm) | 0.51 | 0.51 | 0 | 0-20 |
| Zinc | mg/L (ppm) | 0.06 | 0.08 | a | 0-20 |

Laboratory Code: 304226-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | % Recovery MS | Acceptance Criteria |
|----------|-----------------|-------------|---------------|---------------|---------------------|
| Chromium | mg/L (ppm) | 2 | 0.48 | 89 | 80-120 |
| Copper | mg/L (ppm) | 2 | 0.75 | 88 | 80-120 |
| Nickel | mg/L (ppm) | 4 | 0.51 | 88 | 80-120 |
| Zinc | mg/L (ppm) | 2 | 0.06 | 91 | 80-120 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | % Recovery LCS | % Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|----------|-----------------|-------------|----------------|-----------------|---------------------|----------------|
| Chromium | mg/L (ppm) | 2 | 93 | 96 | 80-120 | 3 |
| Copper | mg/L (ppm) | 2 | 95 | 97 | 80-120 | 2 |
| Nickel | mg/L (ppm) | 4 | 93 | 95 | 80-120 | 2 |
| Zinc | mg/L (ppm) | 2 | 92 | 96 | 80-120 | 4 |

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
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May 1, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

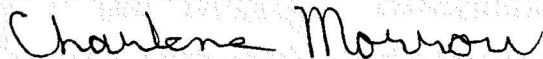
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 17, 2003 from the Metro Self Monitor, PO# M90692, F&BI 304164 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0501R.DOC

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May 1, 2003

DUPLICATE COPY

INVOICE # 03ACU0501-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M90692, F&BI 304164 - Results of testing
requested by Gerry Thompson for material submitted on April 17, 2003.

| | |
|--|----------|
| 1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample | \$ 80.00 |
| Amount Due | \$ 80.00 |

FEDERAL TAX ID #(b) (6)